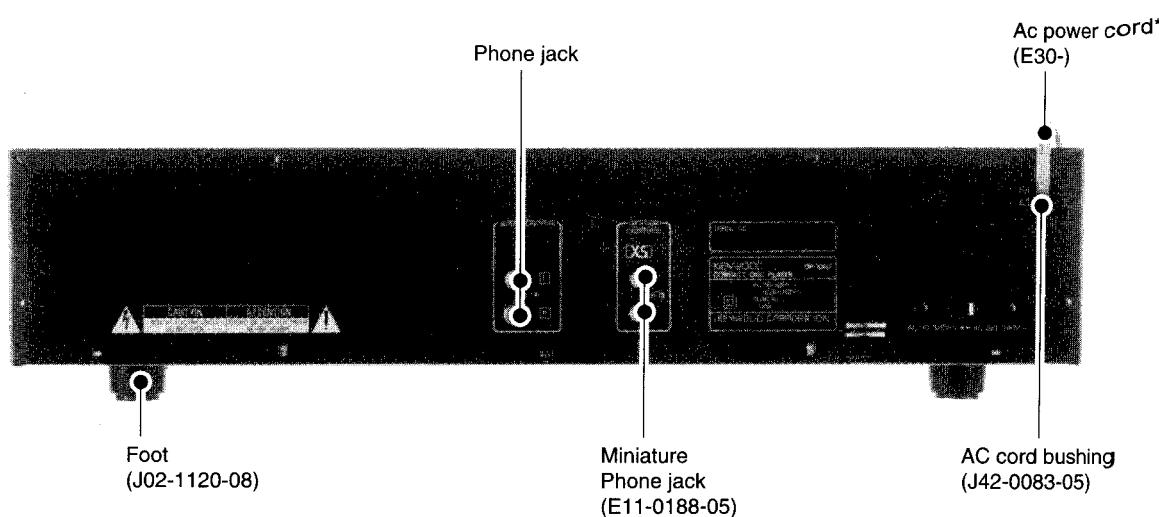
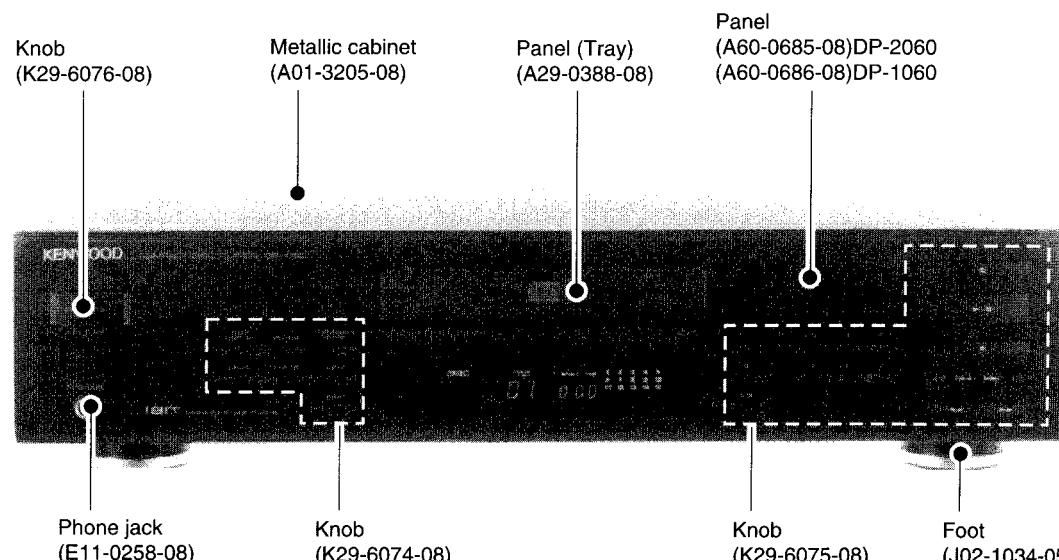


COMPACT DISC PLAYER
DP-1060/2060
SERVICE MANUAL

KENWOOD

©1994-9 PRINTED IN KOREA
B51-4978-00 (K) 3880



In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040.10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM

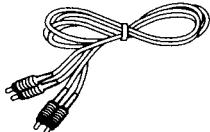
Photo is DP-1060

External view of DP-2060 is same as DP-1060

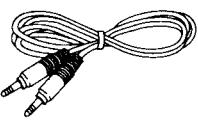
ACCESSORIES/CAUTIONS

Accessories

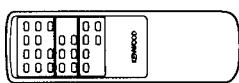
- Audio cord 1
(E30-0505-05)



- System control cord 1
(E30-2733-05)

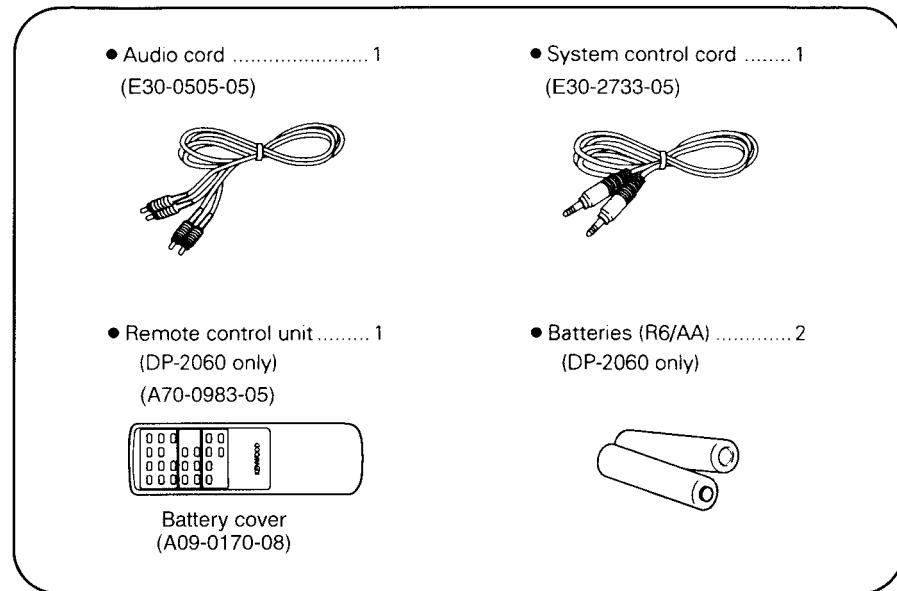
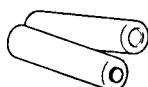


- Remote control unit 1
(DP-2060 only)
(A70-0983-05)



Battery cover
(A09-0170-08)

- Batteries (R6/AA) 2
(DP-2060 only)

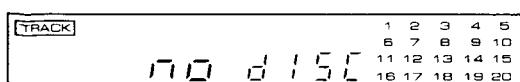


Cautions

Note related to transportation and movement

Before transporting or moving the CD PLAYER, carry out the following operations.

1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.

**Beware of condensation**

When water vapor comes into contact with the surface of cold material, water drops are produced.

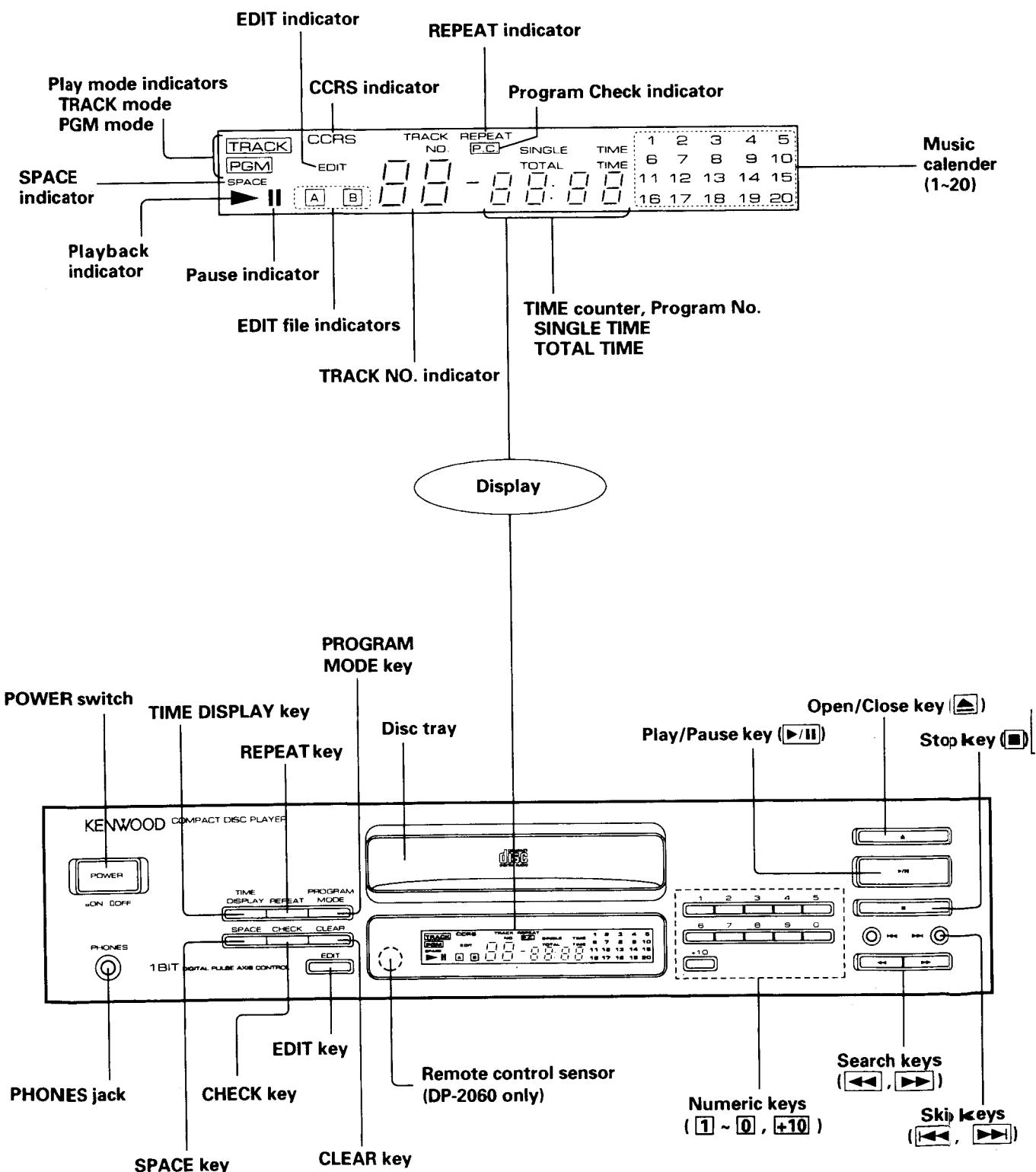
If condensation occurs, correct operation may not be possible, or the unit may not function correctly.

This is not a malfunction, however, the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:

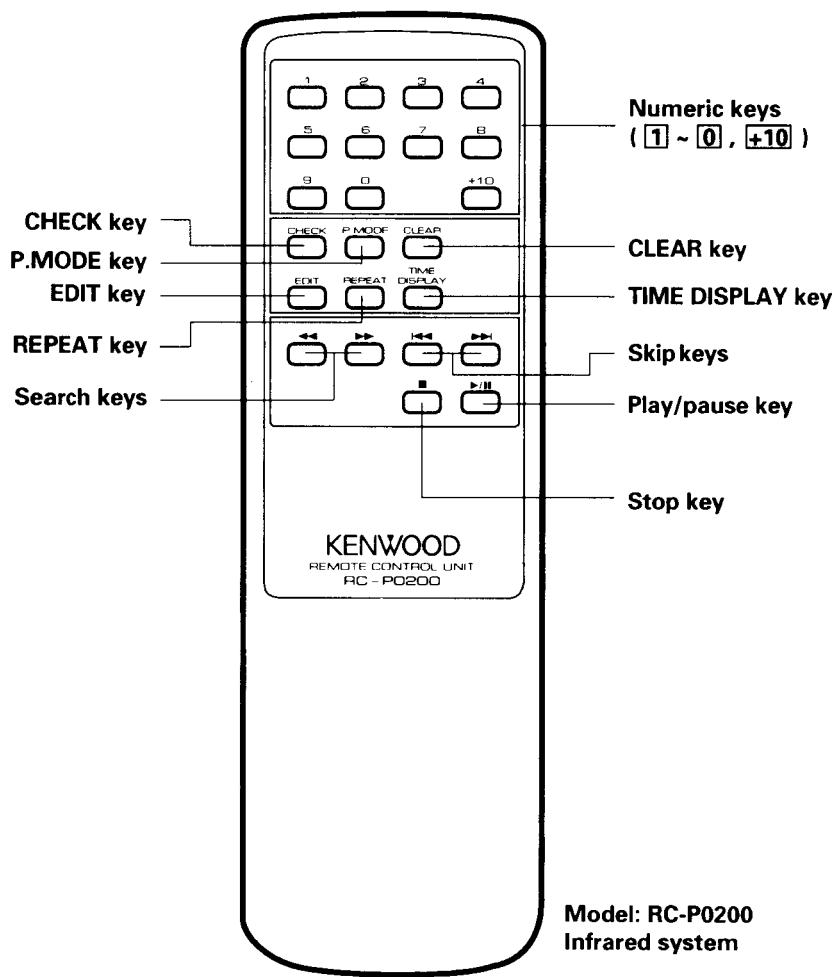
- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

CONTROL

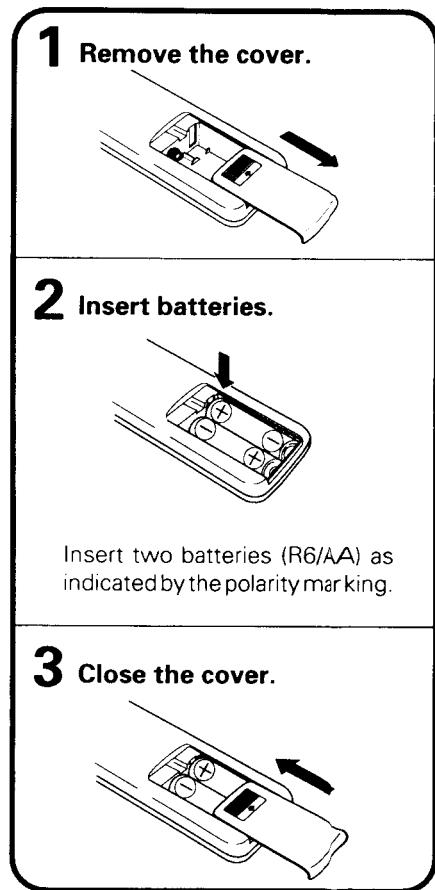


REMOTE CONTROL

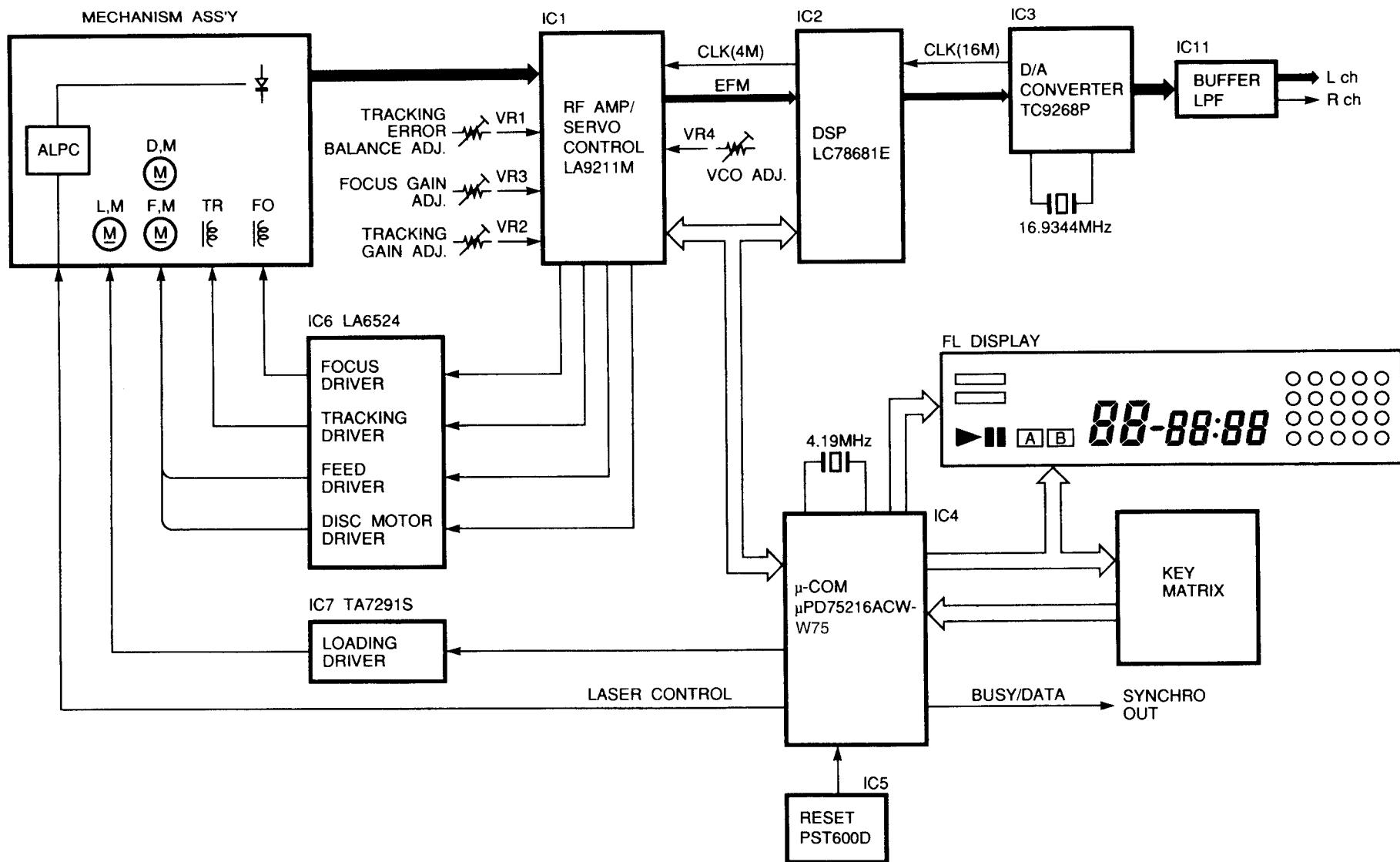
The operations of each are the same as those of the keys in the unit.



■ Loading batteries



BLOCK DIAGRAM

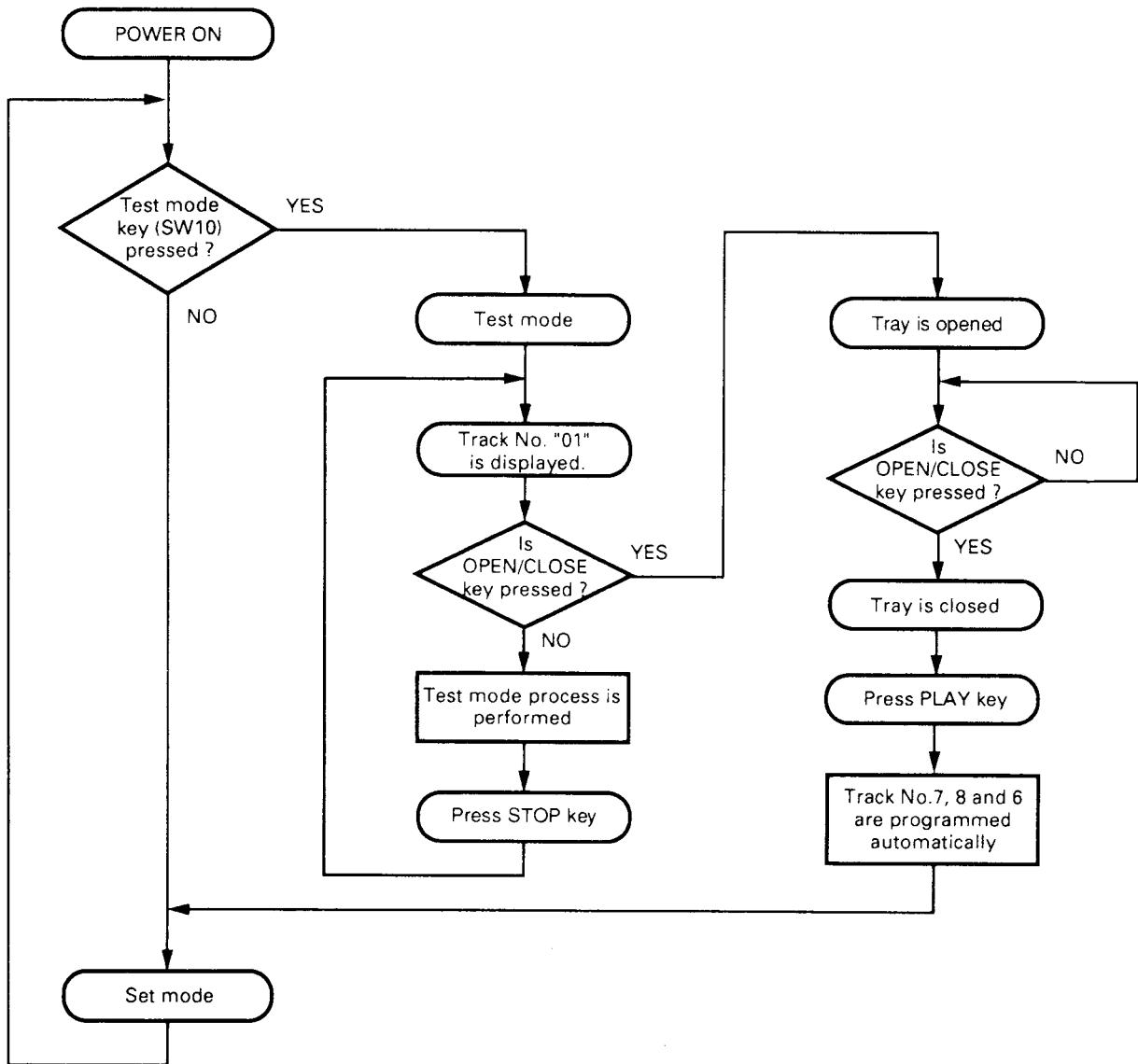


CIRCUIT DESCRIPTION

1. Test mode

1-1. Setting the test mode

This microprocessor built in this unit can be put to TEST MODE (SW10).



CIRCUIT DESCRIPTION

1-2. Key and functions valid in test mode

No.	Input key	Function	Track No. display																																				
1	PLAY	(1) Focusing servo ON (2) Tracking servo ON (3) Feed servo ON	TRACK NO. 05 ↓ Displayed for a few seconds after completion (1), (2) and (3). ↓ Disc Track No. is displayed.																																				
2	CHECK or Number "0" key	(1) Focusing servo ON (2) Tracking servo OFF (3) Feed servo OFF	TRACK NO. 03																																				
3	STOP	(1) Focusing servo OFF (2) Tracking servo OFF (3) Feed servo OFF	TRACK NO. 01																																				
4	►►	In the STOP mode, moves the pickup slightly toward the outer position of disc. When feed servo is ON, sets the track gain to "H".	-																																				
5	◀◀	In the STOP mode, moves the pickup slightly toward the inner position of disc. When feed servo is ON, sets the track gain to "L".	-																																				
6	UP ►►	Turns all FL display lamps ON.	TRACK NO. 88																																				
7	DOWN ◀◀	Turns all FL display lamps OFF. "TRACK NO." is lighted.	TRACK NO. 88																																				
8	+10	Playback Track No.1 under High-speed mode (If not open tray, SPACE key function is available.)	-																																				
9	SPACE	Set playback mode to High-speed or Normal.	-																																				
10	P. MODE	Track No. 7,8, and 6 (High-speed) are programmed and playback from Track No.7. The test mode is canceled.	-																																				
11	OPEN/CLOSE	When the tray is opened then closed. Track No. 7, 8, and 6 are programmed and set in STOP mode. The test mode is canceled.	TRACK NO. 00																																				
12	Numeric key (1 ~ 9)	Jumps tracks as shown below. <table border="1"> <tr> <td>Key</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>Number of tracks</td> <td>1</td> <td>4</td> <td>128</td> <td>512</td> <td>1000</td> </tr> <tr> <td>Direction</td> <td colspan="5">Outer</td> </tr> <tr> <td>Key</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td></td> </tr> <tr> <td>Number of tracks</td> <td>1</td> <td>4</td> <td>128</td> <td>512</td> <td></td> </tr> <tr> <td>Direction</td> <td colspan="5">Inner</td> </tr> </table>	Key	1	2	3	4	5	Number of tracks	1	4	128	512	1000	Direction	Outer					Key	6	7	8	9		Number of tracks	1	4	128	512		Direction	Inner					-
Key	1	2	3	4	5																																		
Number of tracks	1	4	128	512	1000																																		
Direction	Outer																																						
Key	6	7	8	9																																			
Number of tracks	1	4	128	512																																			
Direction	Inner																																						
13	REPEAT	(1) Tray Opened (2) Laser ON The REPEAT function is canceled when the tray is closed by pressing the tray. "REPEAT" figures is lighted.	TRACK NO. 02																																				

REPEAT mode : Press "REPEAT" key → Press "OPEN/CLOSE" key → Press "REPEAT" key...

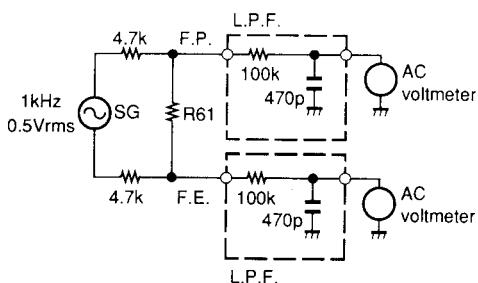
ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	VCO	Test disc Type 4	Connect the frequency counter to "VCO" and GND.	Turn on the SW10 (TEST MODE) to enter the test mode. Press the STOP key. Then, confirm that the display is "01"	VR4	4.05MHz±15kHz	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect the oscillo- scope to "T.ER".	Press the OPEN/CLOSE key to open the tray. Reset to TEST mode Then, press the CHECK key. Confirm that the display is "03".	VR1	Symmetry between upper and lower patterns, or DC=0±0.05V	(b)
3	FOCUS GAIN	Test disc Type 4 Apply signal of 1kHz, 0.5Vrms to R61(F.P. - F.E.).	Connect a LPF to R61 (F.P. - F.E.) to which connect two AC voltmeters.	Press the PLAY key Confirm that the display is "05".	VR3	Two VTVMs should read the same value.	(c)
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1kHz, 0.5Vrms to R63(T.P. - T.E.).	Connect a LPF to R63 (T.P. - T.E.) to which connect two AC voltmeters.	Press the PLAY key Confirm that the display is "05".	VR2	Two VTVMs should read the same value.	(d)
5	H.F. LEVEL CONFIRMATION	Test disc Type 4	Connect the oscillo- scope to "H.F.".	Press the PLAY key Confirm that the display is "05".	-	1.5Vp-p ~ 1.5Vp-p	(e)

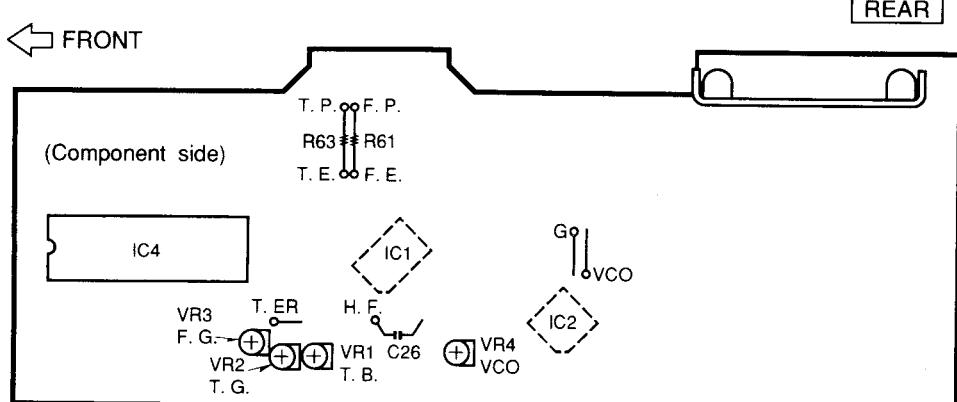
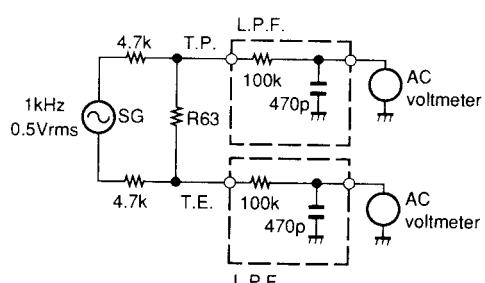
(NOTE) Type 4 disc : SONY YEDS-18 TEST DISC or equivalent.

Adjustment procedures are in TEST MODE.

(c) Focus gain

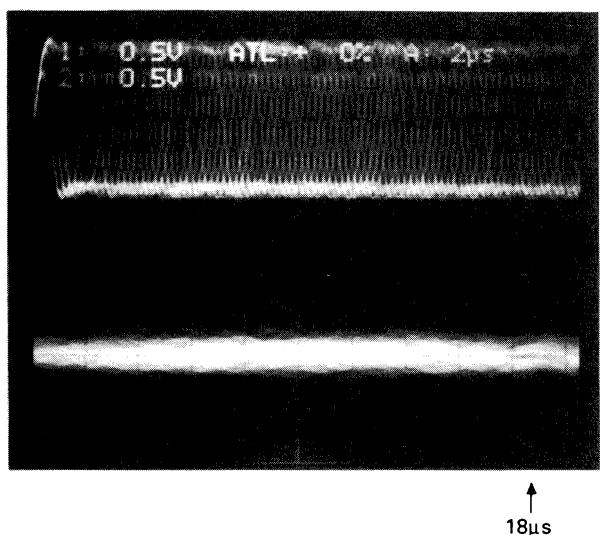


(d) Tracking gain



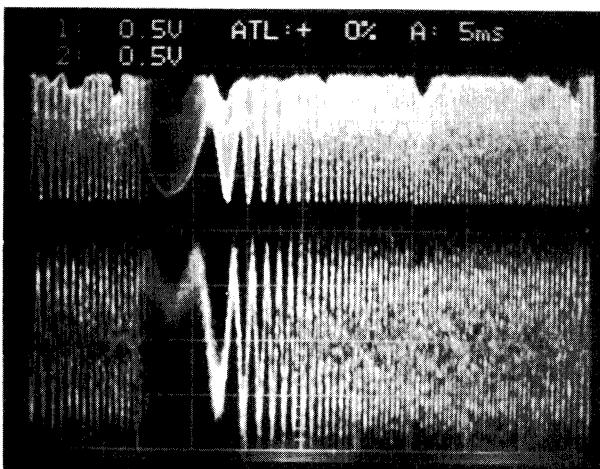
ADJUSTMENT

RF level, TE waveform



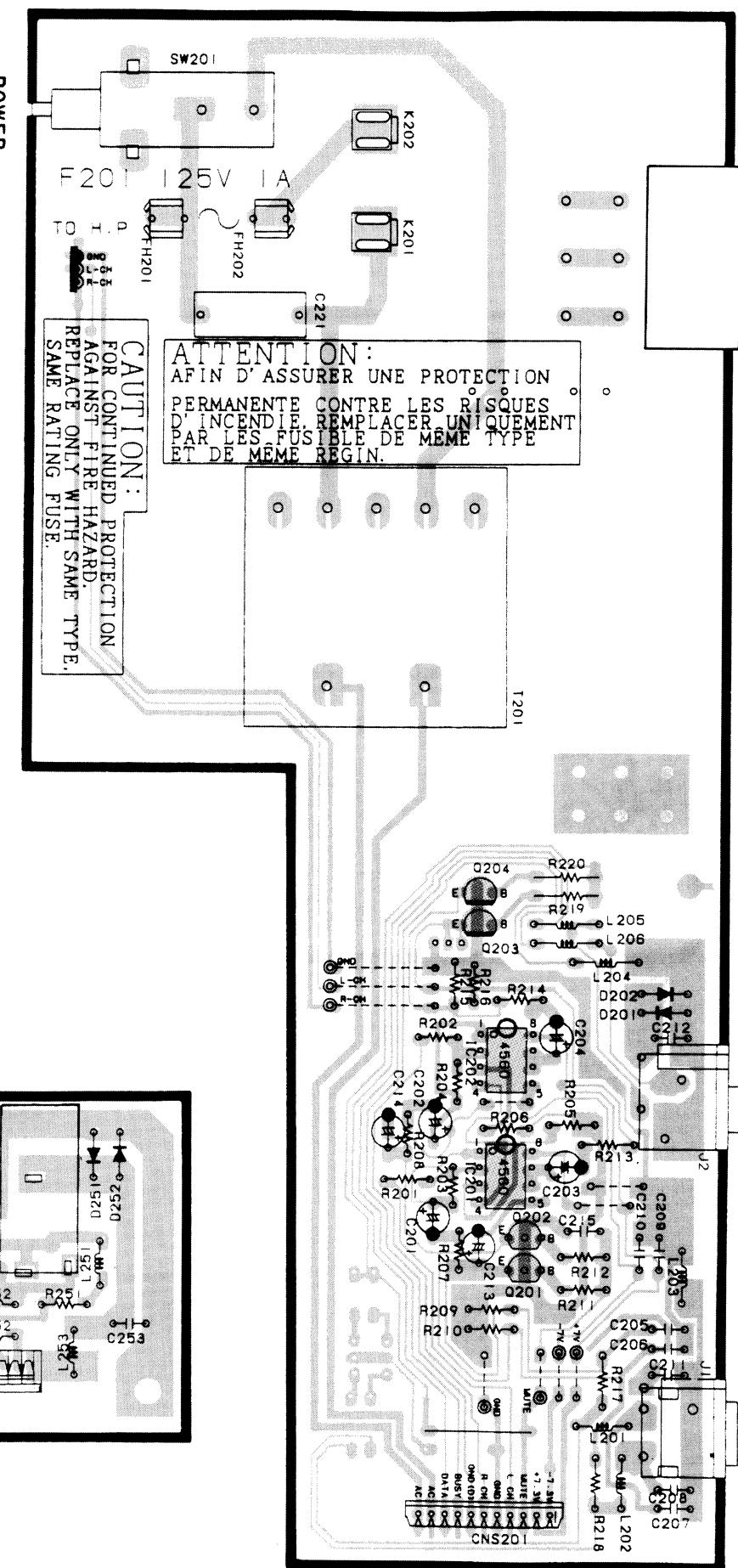
- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. $18\mu\text{s}$ after RF signal, in the form of a projection.

(b) Tracking error balance



- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical above and below 0V. (VR 1)

PC BOARD (COMPONENT SIDE VIEW)

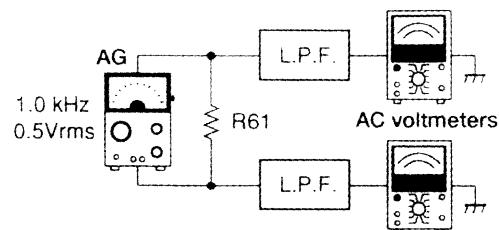


Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (COMPONENT SIDE VIEW)

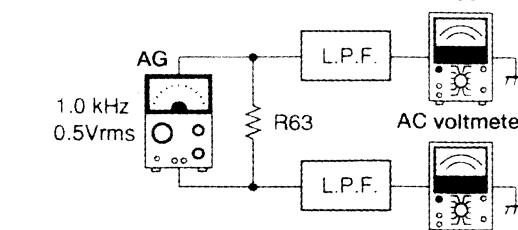
(c) Focus gain :

Two VTVMs shuld read the same value.



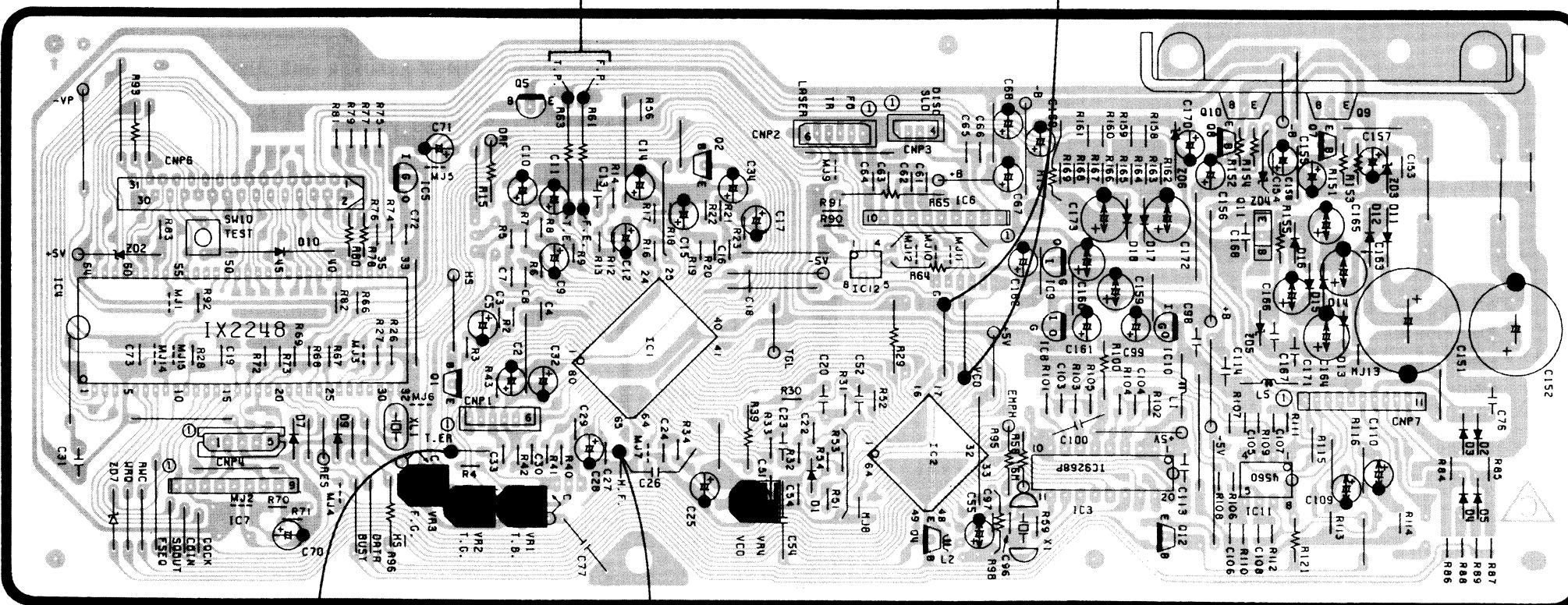
(d) Tracking gain :

Two VTVMs shuld read the same value.



Frequency counter

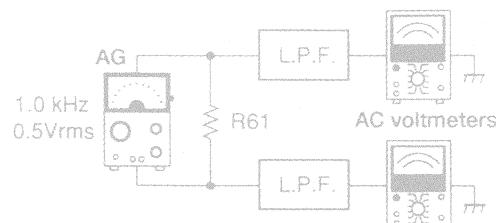
(a) VCO : $4.05\text{MHz} \pm 15\text{kHz}$



PC BOARD (COMPONENT SIDE VIEW)

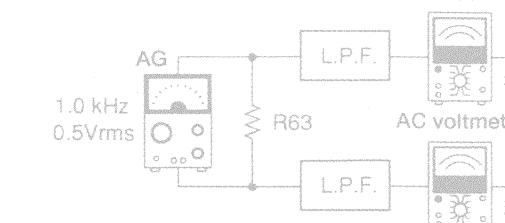
(c) Focus gain :

Two VTVMs shuld read the same value.



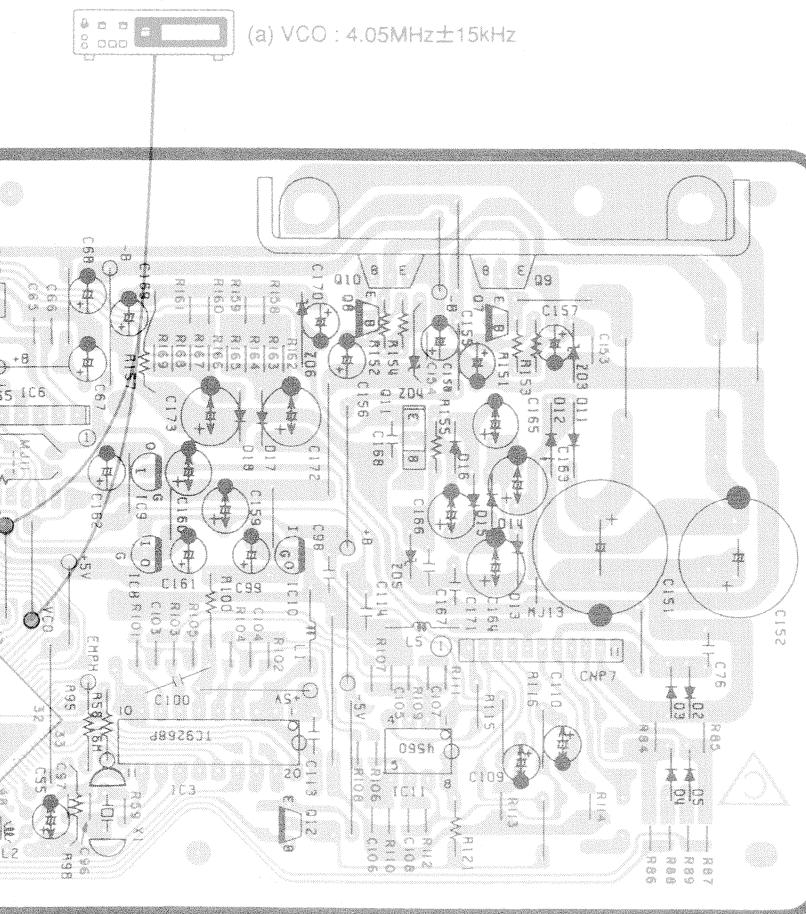
(d) Tracking gain :

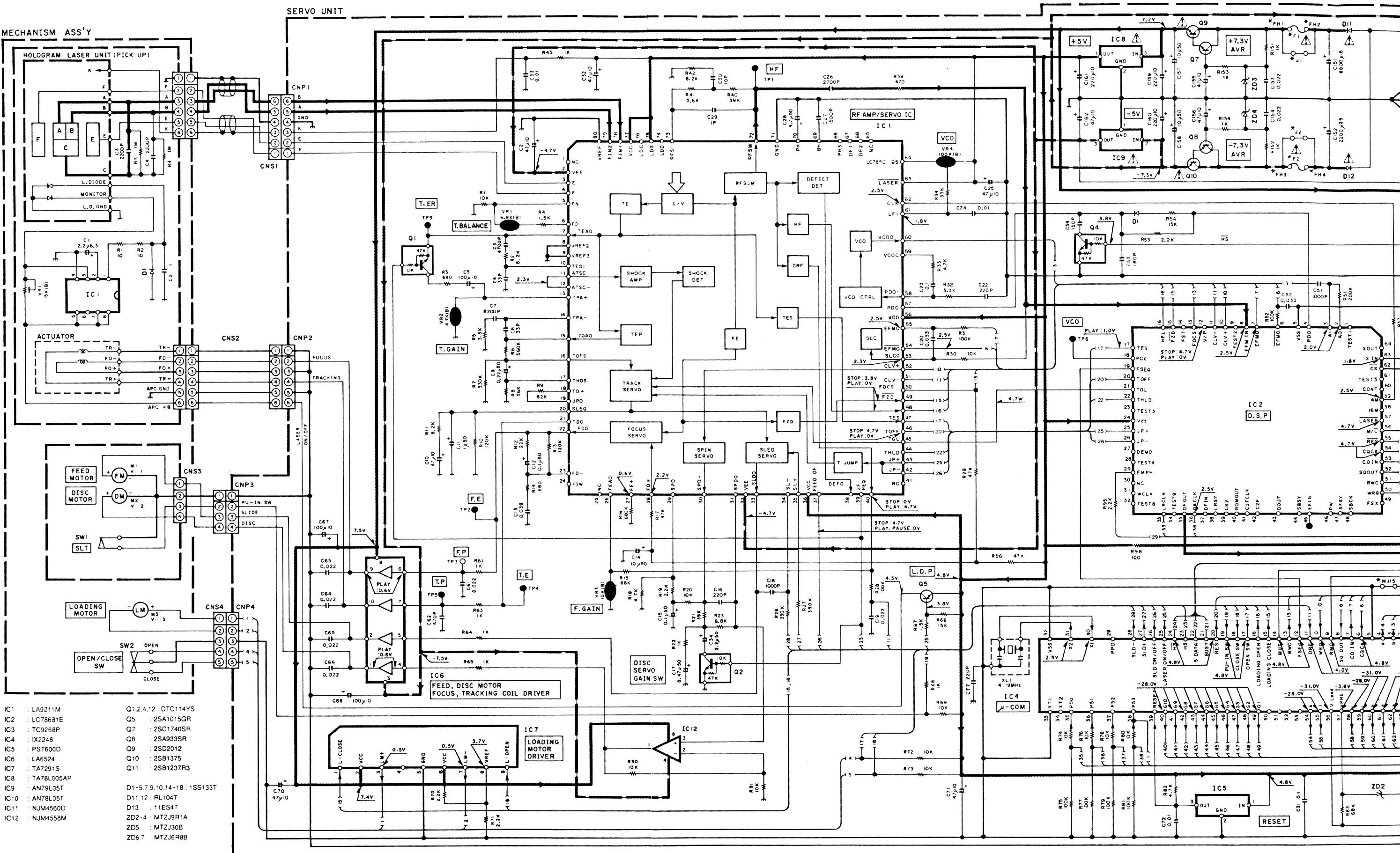
Two VTVMs shuld read the same value.



Frequency counter

(a) VCO : $4.05\text{MHz} \pm 15\text{kHz}$





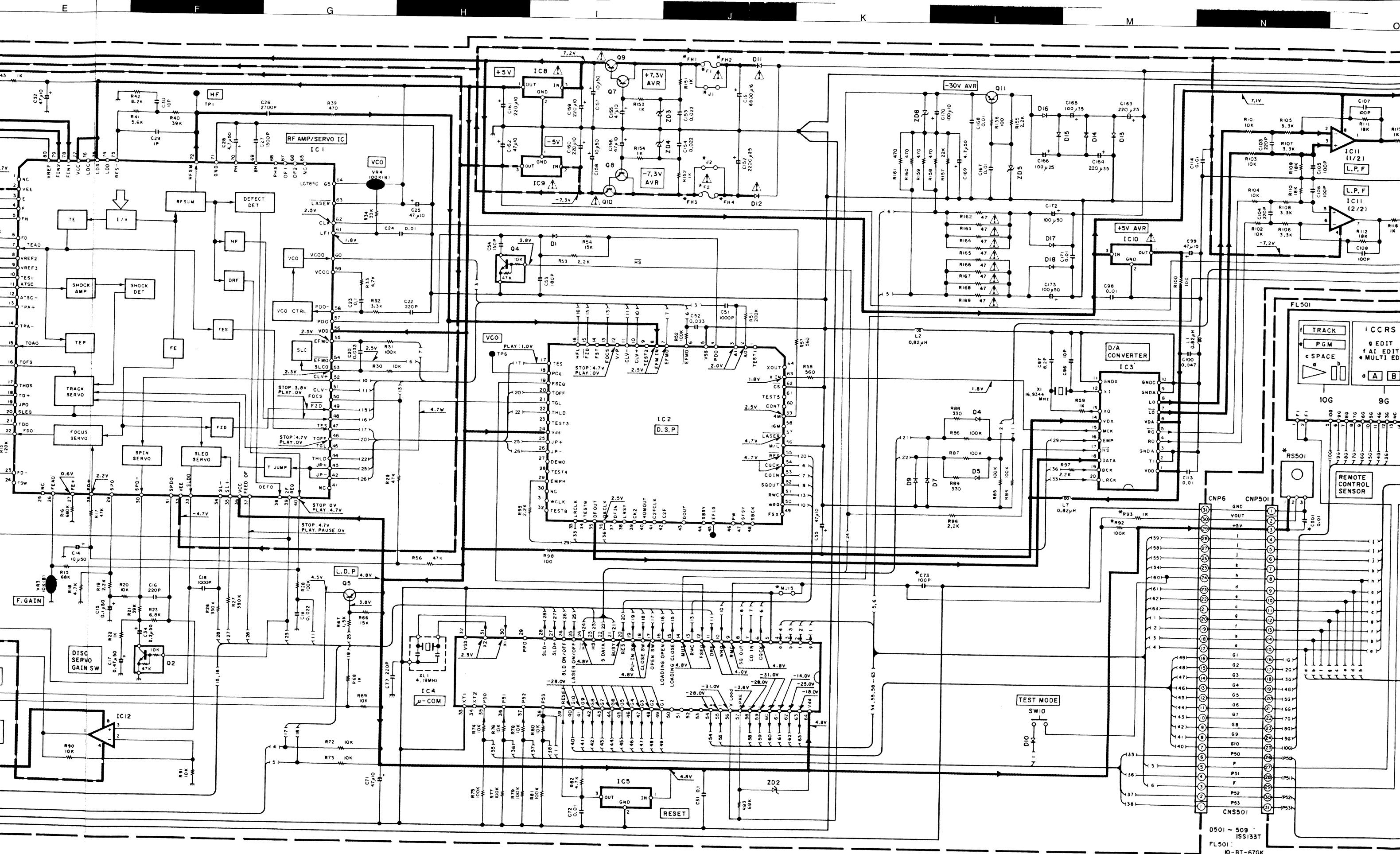
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to individual instruments or/and units.

IC1 : LA9211M
 IC2 : LC78681E
 IC3 : TC9268P
 IC4 : IX2248
 IC5 : PST600D
 IC6 : LA6524
 IC7 : TA7291S
 IC8 : TA78L005AP
 IC9 : AN79L05T
 IC10 : AN78L05T
 IC11 : NJM4560D
 IC12 : NJM4558M

Q1:2,4,12 DTC114YS
 Q5:2SA1015GR
 Q7:2SC1740SR
 Q8:2SA933SR
 Q9:2SD2012
 Q10:2SB1375
 Q11:2SB1237R3

D1-5,7,9,10,14-18 1SS133T
 D11,12 RLT104T
 D13:11ESAT
 ZD2-4:MTZJ9R1A
 ZD5:MTZJ30B
 ZD6,7:MTZJ6R8B

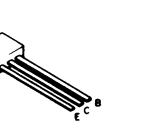


recommended parts (refer to parts list). Δ indicates safety critical components.
carried out (exposed parts are acceptably insulated from the supply circuit)

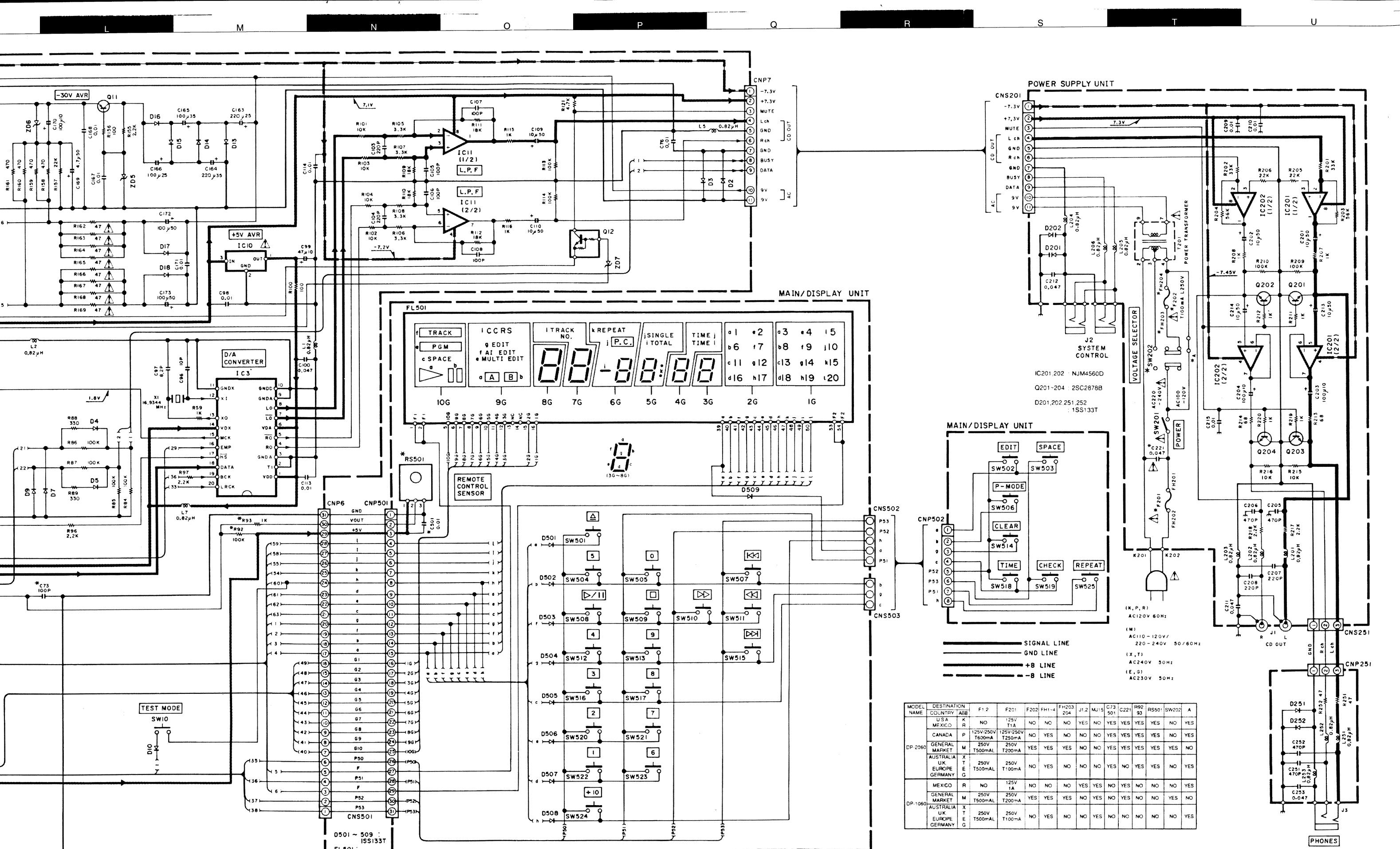
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

TC114YS

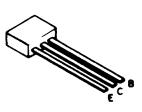
SB1375
SD2012



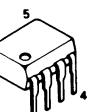
NJM4560D



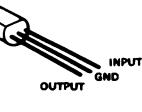
DTC114YS

2SB1375
2SD2012

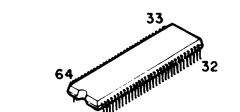
NJM4560D



TA78L005AP



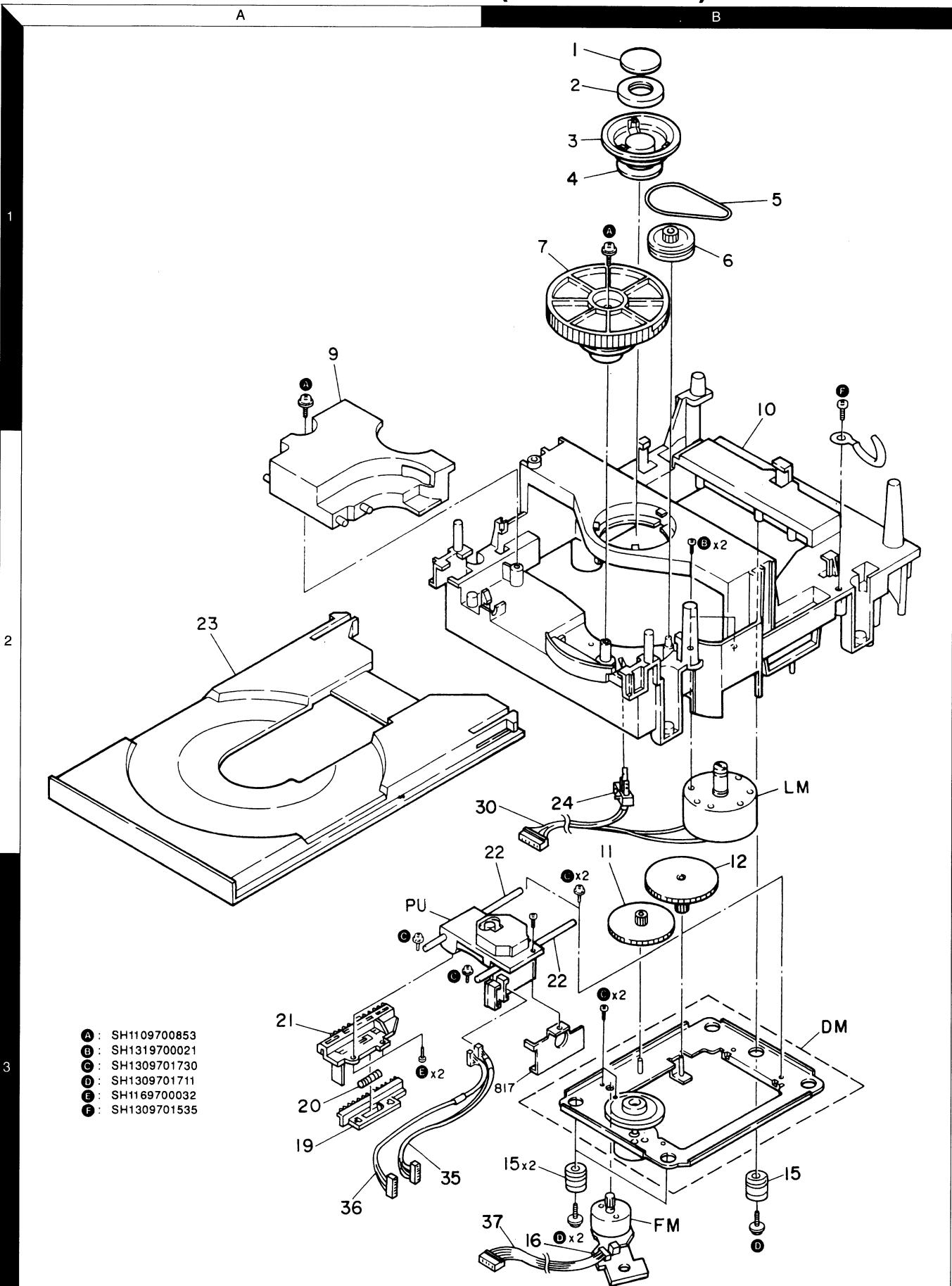
UPD75216ACW-W75



Y22-3790-00

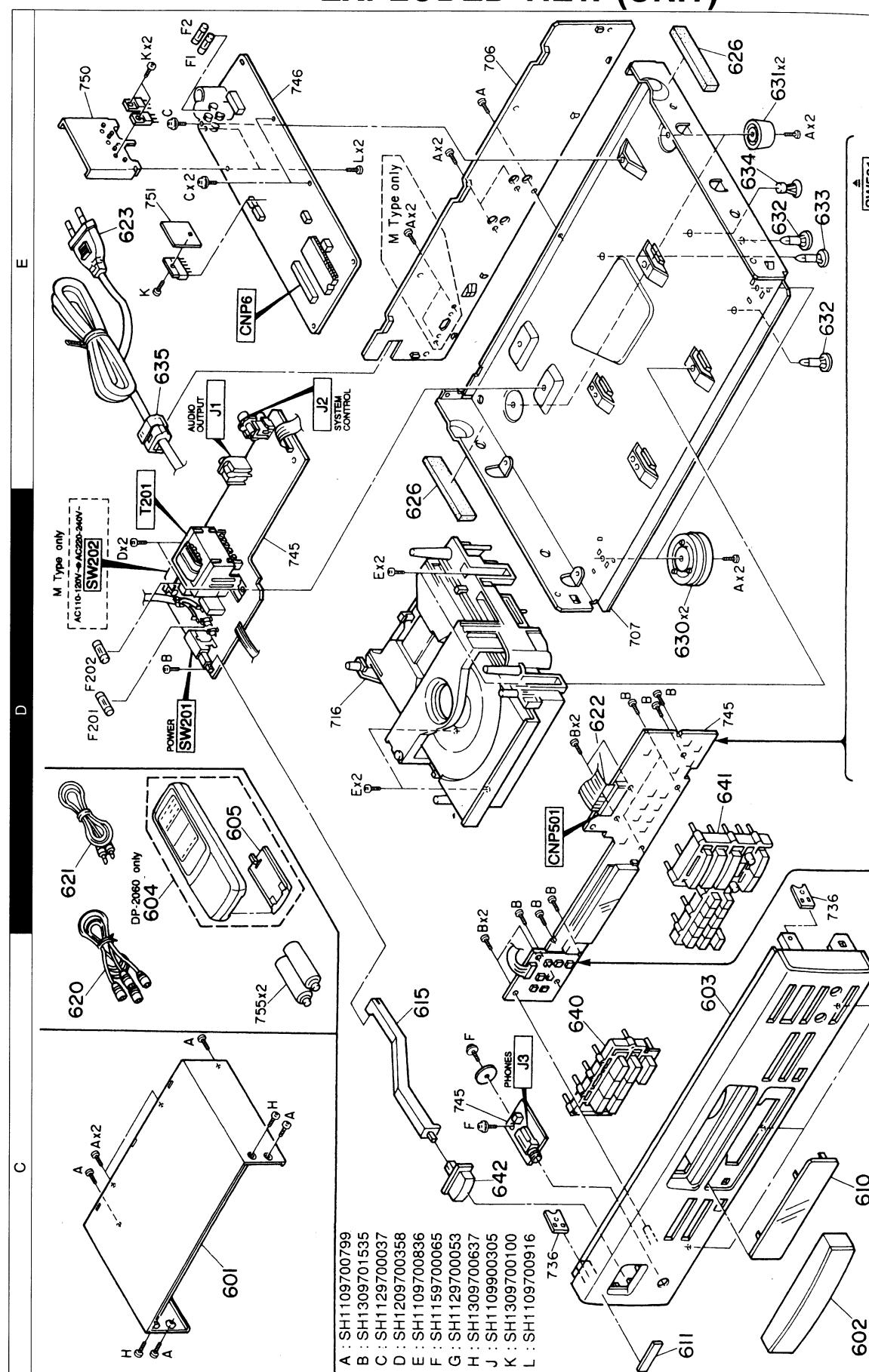
KENWOOD

EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied

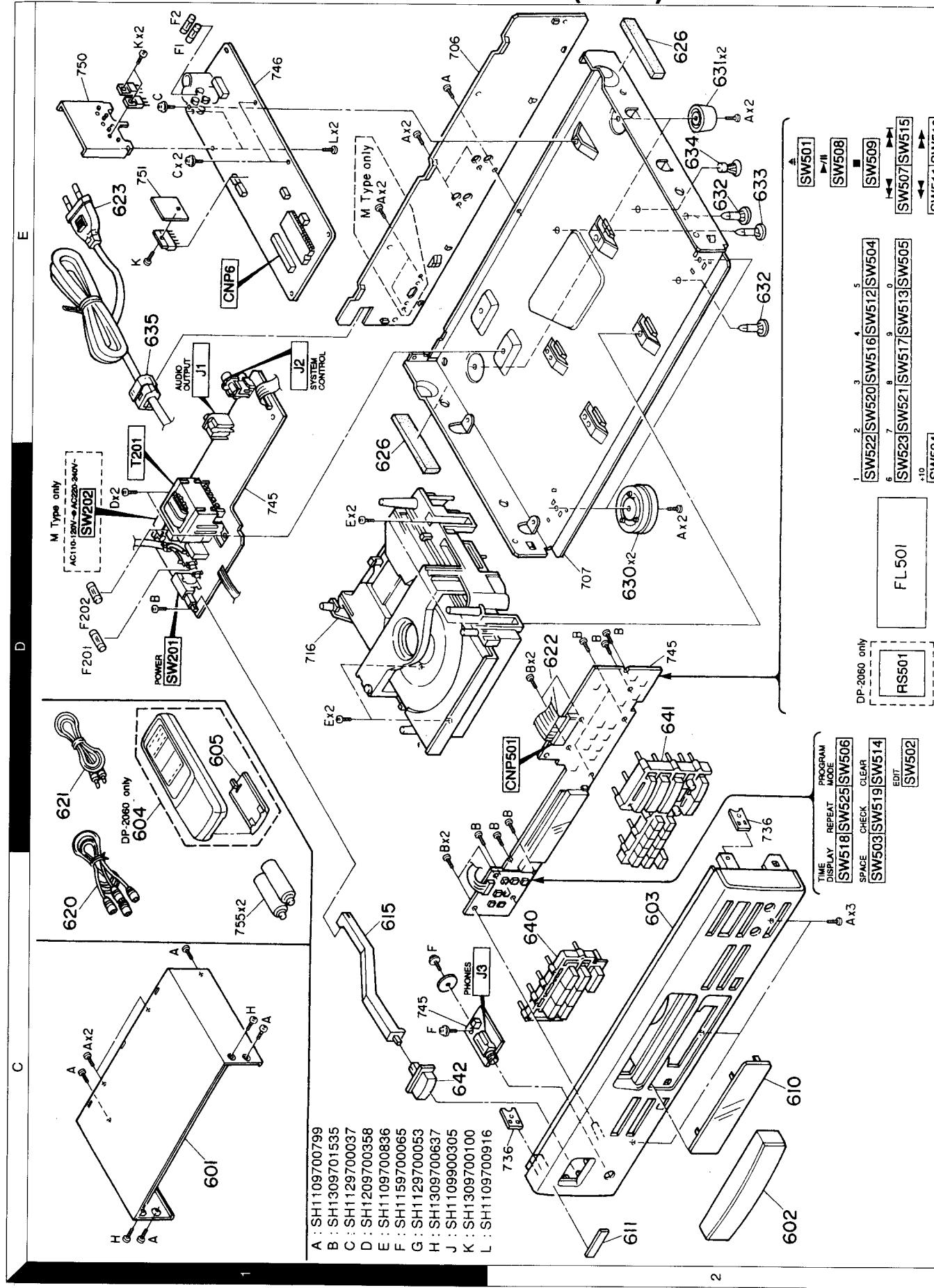
EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied

EXPLODED VIEW (UNIT)

PARTS LIST



- * New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
- * New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
- * New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Ref. No.	Address	Parts No.	Parts No.	Description	Desti- nation	Re- marks
※ 照番号	位	品番	部品番号	部品名 / 規格	仕	備考
DP-1060/DP-2060						
601	1C	*	A01-3205-08	METALLIC CABINET		
602	2C	*	A29-0388-08	PANEL (TRAY)	(DP-2060)	
603	2C	*	A60-0685-08	PANEL	(DP-1060)	
604	1D	*	A60-0686-08	PANEL	(DP-2060)	
605	1D	*	A70-0983-05	REMOTE ASSY	(DP-2060)	
610	2C	*	A09-0170-08	BATTERY COVER	(DP-2060)	
611	2C	*	B10-2077-08	FRONT GLASS		
-	-	*	B43-0281-04	KENWOOD BADGE		
-	-	*	B60-1680-08	INSTRUCTION MANUAL (ENGLISH)		
-	-	*	B60-1681-08	INSTRUCTION MANUAL (ENGLISH)		
-	-	*	B60-1682-08	INSTRUCTION MANUAL (ENGLISH)		
-	-	*	B60-1683-08	INSTRUCTION MANUAL (FRENCH)		
-	-	*	B60-1684-08	INSTRUCTION MANUAL (GERMAN)		
-	-	*	B60-1685-08	INSTRUCTION MANUAL (SPANISH)		
-	-	*	B60-1935-08	INSTRUCTION MANUAL (TITAN)		
615	1C	*	D21-1700-08	EXTENSION SHAFT		
620	1C	*	E30-0505-05	AUDIO CORD		
621	1D	*	E30-2723-05	CORD WITH PLUG		
622	2D	*	E35-1046-08	FLAT CABLE		
623	1E	*	E30-0459-05	AC POWER CORD	MEG	
-	623	1E	E30-0974-05	AC POWER CORD	KPR	
623	1E	*	E30-2750-08	AC POWER CORD	X	
623	1E	*	E30-2953-08	AC POWER CORD	T	
626	1D, 2E	*	G10-0199-08	CHASSIS CUSHION		
-	-	*	H10-5962-08	POLYSTYRENE FOAMED FIXTURE		
-	-	*	H10-5963-08	POLYSTYRENE FOAMED FIXTURE		
-	-	*	H25-1142-08	PROTECTION BAG	KPR	
-	-	*	H50-1159-08	ITEM CARTON CASE (DP-2060)	YTE	
-	-	*	H50-1159-08	ITEM CARTON CASE (DP-2060)	TE	
-	-	*	H50-1160-08	ITEM CARTON CASE (DP-2060)	M	
-	-	*	H50-1161-08	ITEM CARTON CASE (DP-1060)	AYTE	
-	-	*	H50-1162-08	ITEM CARTON CASE (DP-1060)	M	
630	2D	*	J02-1034-05	FOOT		
631	2E	*	J02-1120-08	FOOT		
632	2E	*	J19-3337-08	UNIT HOLDER		
633	2E	*	J19-3338-08	UNIT HOLDER		
634	2E	*	J19-3339-08	UNIT HOLDER		
635	1E	*	J42-0083-05	AC CORD BUSHING		
-	-	*	SH13030330057	NYLON BAND		
640	2C	*	K29-6074-08	KNOB		
641	2D	*	K29-6075-08	KNOB		
642	1C	*	K29-6076-08	KNOB (POWER)		
642	1D	*	L07-1867-08	POWER TRANSFORMER	KPR	
T201	1D	*	L07-1868-08	POWER TRANSFORMER	M	
T201	1D	*	L07-1869-08	POWER TRANSFORMER	XT	
T201	1D	*	L07-1870-08	POWER TRANSFORMER	EG	
A	*	*	SH1010700799	SCREW		
B	*	*	SH13030701535	SCREW		
C	*	*	SH11227003037	SPECIAL SCREW		

Parts with the exploded numbers larger than 700 are not supplied.

19

Ref. No.	Address	Parts No.	Parts No.	Description	Desti- nation mark 付
參照番号	位 置	部 品 番 号	部 品 番 号	部 品 名 ／ 規 格	Re- marks 備考
D	*	SH1109700358		SCREW	
E	*	SH1109700835		SCREW	
F	*	SH1159700065		SPECIAL SCREW	
G	*	SH1129700053		SPECIAL SCREW	
H	*	SH1309700637		R-ANT SCREW	
J	*	SH11099900305		WASHER	
K	*	SH1309700100		SCREW	
L	*	SH1109700916		SCREW	
ELECTRIC PARTS					
C2		CEO4KWA470M	ELECTRO	4.7UF	10W
C3		CK41DB1C472K	CYLND CHIP	4.700UF	K
C4		CC41DS1H320J	CYLND CHIP	3.3PF	J
C5		CEO4KWA101M	ELECTRO	1.00UF	10W
C7	*	CK41DB1C822M	CYLND CHIP	0.200UF	M
C8		CC41DS1H330J	CYLND CHIP	3.3PF	J
C9		CEO4KWA1470M	ELECTRO	0.22UF	10W
C10		CEO4KWA101M	ELECTRO	4.7UF	10W
C11		CEO4KWA101M	ELECTRO	1.0UF	50W
C12		CEO4KWA101M	ELECTRO	0.1UF	50W
C13		CK5FB1H393K	CERAMIC	0.039UF	K
C14		CEO4KWA101M	ELECTRO	1.0UF	50W
C15		CEO4KWA101M	ELECTRO	0.1UF	50W
C16		CK41DB1H221K	CYLND CHIP	220PF	K
C17		CEO4KWA1H47M	ELECTRO	0.47UF	50W
C18		CK41DB1H102K	CYLND CHIP	1.000UF	K
C19	*	CK41DB1G222Z	CYLND CHIP	0.022UF	Z
C20		CK5FB1H333K	CERAMIC	0.033UF	K
C22		CK41DB1H221K	CYLND CHIP	220PF	K
C23		CK45FB1H104K	CERAMIC	0.10UF	K
C24	*	CK41DB1C103K	CYLND CHIP	0.010UF	K
C25		CEO4KWA1470M	ELECTRO	4.7UF	10W
C26		CK1FB1H222M	CYLND CHIP	2700PF	M
C27		CK41DB1C121K	CYLND CHIP	1500PF	K
C28		CK45FB1H487M	ELECTRO	4.7UF	50W
C29	*	CC41DS1H101C	CYLND CHIP	1.0PF	C
C30		CC41DS1H100J	CYLND CHIP	1.0PF	K
C31		CK92FB1H104J	MYLAR	0.10UF	J
C32		CEO4KWA1470M	ELECTRO	4.7UF	10W
C33	*	CK41DB1C103K	CYLND CHIP	0.010UF	K
C34		CEO4KWA1470M	ELECTRO	4.7UF	10W
C51		CK1DB1H102K	CYLND CHIP	1000PF	K
C52		CK45FB1H333K	CERAMIC	0.033UF	K
C53		CK45FB1H181K	CERAMIC	1.80PF	K
C54		CK41FB1H181K	CYLND CHIP	150PF	K
C55	*	CK1081G222Z	CYLND CHIP	0.022UF	Z
C61		CK41DB1H471K	CYLND CHIP	4.70PF	K
C62	-66	CK41DB1E223Z	CYLND CHIP	0.022UF	Z
C63	-66	CEO4KWA101M	ELECTRO	1.00UF	10W
C67	,71	CEO4KWA1470M	ELECTRO	4.7UF	10W
C70	,71	CK1101C103K	CYLND CHIP	0.010UF	K
C73		CK41DB1H101K	CYLND CHIP	1.00PF	Z
C76		CK45FB1H103Z	CERAMIC	0.010UF	Z
C77		CK41FB1H221K	CYLND CHIP	220PF	K

Scandinavia	YPX (Far East, Hawaii)	KUSA	T-Finland	P-Canada
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PARTS LIST

Ref. No.	参照番号	Parts No.	部品番号	Description	部品名／規格	Parts No.	部品番号	Description	部品名／規格	Desti- nation	Re- marks
Ref. No.	参照番号	Address	部品番号	Address	部品番号	Ref. No.	参照番号	Address	部品番号	Desti- nation	Re- marks
MECHANISM PARTS											
R82	RA41DB2B472J	CARBON	4.7K	J	1/8W	1	T50-1067-08	SH1313730001	MAGNET SUPPORT	Parts without Parts No. are not supplied.	
R83	RA41DB2B663J	CARBON	68K	J	1/8W	2	SH102140396	C13-0402-08	MAGNET HOLDER	Parts without Parts No. are not supplied.	
R84 -87	RA41DB2B104J	CARBON	100K	J	1/8W	3	C13-0402-08	MAGNET CUSHION	Parts without Parts No. are not supplied.		
R88 -89	RA41DB2B311J	CARBON	330	J	1/4W	4	D16-0362-08	DRIVE BELT	Parts without Parts No. are not supplied.		
R92	RA41DB2B104J	CARBON	100K	J	1/8W	5	SH102810098	D15-0364-08	DRIVE PULLEY	Parts without Parts No. are not supplied.	
R97	RA41DB2B222J	CARBON	2.2K	J	1/8W	6	SH1102140398	SH1102140398	PINION GEAR	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
R101-104	RA41DB2B103J	CARBON	10K	J	1/8W	7	A11-1021-08	A11-1021-08	LOADING CHASSIS	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
R105-108	RA41DB2B332J	CARBON	3.3K	J	1/8W	10	SH1302810228	SH1302810228	GEAR (MIDDLE)	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
R109-112	RA41DB2B83J	CARBON	18K	J	1/8W	11	SH1302810229	SH1302810229	GEAR (DRIVE)	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
R113-114	RA41DB2B104J	CARBON	100K	J	1/8W	12	SH1302900394	SH1302900394	SHAFT (GUIDE)	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
R156	RA41DB2B01J	CARBON	100	J	1/8W	15	SH1305201048	SH1305201048	DISC TRAY	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
R158-161	RA41DB2B471J	CARBON	470	J	1/8W	16	SH1302810232	SH1302810232	LEAF SW (OPEN/CLOSE)	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
R162-169	RA41DB2B470J	CARBON	47	J	1/8W	19	SH125280244	SH125280244	GEAR (RACK MOVE)	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
VR1	R12-2048-08	TRIMMING POT	<.8K><T. BALANCE>			20	SH1302810231	SH1302810231	SPRING (RACK CRACK)	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
VR2	R12-1619-05	TRIMMING POT	<4.7K><T. GAIN>			21	SH1302901231	SH1302901231	GEAR (RACK FIX)	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
VR3	R12-3685-05	TRIMMING POT	<10K><F. GAIN>			22	SH1102140395	SH1102140395	SHAFT (GUIDE)	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
VR4	R12-5631-05	TRIMMING POT	<100K><VC00>			23	SH1102140395	SH1102140395	DISC TRAY	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
SW10	SH130301218	SWITCH	(TEST MODE)			24	S74-0027-09	S74-0027-09	LEAF SW (OPEN/CLOSE)	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
SW10	SH130301218	SWITCH	(POWER)			30	* E35-1035-08	* E35-1035-08	WIRING HARNESS	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
SW202	SH130301218	SWITCH	(VOLTAGE)			35	* E35-1050-08	* E35-1050-08	WIRING HARNESS	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
SW201	SH130301218	SWITCH	(OBJECT etc.)			36	* E35-1051-08	* E35-1051-08	WIRING HARNESS	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
SW201-525	SH130301218	SWITCH	(BT)			37	* E35-1052-08	* E35-1052-08	WIRING HARNESS	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
D1 -5	15S1133T	DIODE				A	SH1109700853	SH1109700853	SPECIAL SCREW	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
D7	15S1133T	DIODE				B	SH131970021	SH131970021	SPECIAL SCREW	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
D9 ,10	15S1133T	DIODE				C	SH1309701730	SH1309701730	SCREW	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
D11 ,12	15S1133T	DIODE				D	SH1309701711	SH130970032	SCREW	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
D13	* 115S1134T	DIODE				E	SH1109701535	SH1109701535	SCREW	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
D14 -18	15S1133T	DIODE				F	SH1306300457	SH1306300457	DISC MOTOR	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
D201,202	1D	15S1133T	DIODE			DM	SH1256301027	SH1256301027	FEED MOTOR	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
D201,52	1D	15S1133T	DIODE			FM	SH1106302000	SH1106302000	MOTOR	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
D501-S09	10-BT-67GK	INDICATOR TUBE				LM	T25-0032-08	T25-0032-08	CD PICKUP ASSY	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
FL501	2D					PU					
ZD2 -4	* MTZJ9RA	ZENER	DIODE								
ZD5 ,7	* MTZJ308	ZENER	DIODE								
	MTZ26RB8	ZENER	DIODE								
IC1	LA9211M	IC									
IC2	LCB681E	IC									
IC3	LCB668P	IC									
IC4	APD7216ACW-W75	IC									
IC5	PS16000	IC									
IC6	LA6524	IC	(BRIDGE DRIVER)								
IC7	TA2291S	IC	(VOLTAGE REGULATOR / +5V)								
IC8	TA18L005AP	IC									
IC9	AN78L007	IC									
IC10	AN78L007	IC									
IC11	NJM45560D	IC (OP AMP X2)									
IC12	NJM4558M	IC (OP AMP X2)									
IC201	NJM5600	IC (OP AMP X2)									
Q1 ,2	Q1 ,2	TRANSISTOR									
Q4	DTC114YS	TRANSISTOR									
	DTC114YS	TRANSISTOR									
Q5	2SA1015GR	TRANSISTOR									
Q7	2SC1740SR	TRANSISTOR									
Q8	2SA1333SR	TRANSISTOR									
Q9	2SD2012	TRANSISTOR									
Q10	2SB1375	TRANSISTOR									

* New Parts

Parts without Parts No. are not supplied.

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U.S.A. **U.S.A.** **Canada** **C. Canada**
 Y.E.P.(East, Hawaii) **Y.E.P.** **Europe** **E. Europe**
 Y.AA/EE(Europe) **Y.AA/EE** **Other Areas** **M. Other Areas**

* indicates safety critical components.

△ indicates safety critical components.

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Ref. No.	参照番号	Parts No.	部品番号	Description	部品名／規格	Parts No.	部品番号	Description	部品名／規格	Desti- nation	Re- marks
IC11	Q1	Q5	Q5	IC (OP AMP X2)	IC (OP AMP X2)	Q1	Q5	TRANSISTOR	TRANSISTOR	Parts without Parts No. are not supplied.	
IC12	Q1 ,2	Q7	Q7	IC (OP AMP X2)	IC (OP AMP X2)	Q1 ,2	Q7	TRANSISTOR	TRANSISTOR	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	
IC201	Q1 ,2	Q8	Q8	IC (OP AMP X2)	IC (OP AMP X2)	Q1 ,2	Q8	TRANSISTOR	TRANSISTOR	Telle ohne Parts No. werden nicht geliefert.	
Q10	Q10	Q9	Q9	IC (OP AMP X2)	IC (OP AMP X2)	Q10	Q9	TRANSISTOR	TRANSISTOR	Les articles non mentionnés dans le Parts No. ne sont pas fournis.	

